

COC# 203

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
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## CHAIN OF CUSTODY REPORT

Work Order #: M107054

CLIENT: BRISTOL				INVOICE TO: BRISTOL				<b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 &lt;1</div> <div>STD.</div> <div>5 4 3 2 1 &lt;1</div> <div>STD.</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 &lt;1</div> <div>STD.</div> </div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">OTHER</div> Please Specify _____ <small>*Turnaround Requests less than standard may incur Rush Charges.</small>										
REPORT TO: ANNE KRANAWETTER				P.O. NUMBER: 21090														
ADDRESS: AMCHITKA, AK																		
PHONE: 907-770-0974 FAX: 770-0975																		
PROJECT NAME: AMCHITKA				REQUESTED ANALYSES														
PROJECT NUMBER: 21090																		
SAMPLED BY: KLP																		
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		PCBs	Metals	Fecal Coliform	DO / pH	TSS	BOD						MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01 AMTE12SW		7/26/01 1630		X	X	X	X	X	X						W	7		
2.																		
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		
12.																		
13.																		
14.																		
15.																		

RELINQUISHED BY: <i>Kyle Peterson</i>		FIRM: BRISTOL		DATE: 7/26/01		RECEIVED BY: <i>Stephan Weil</i>		FIRM: NCA		DATE: 7/26/01	
PRINT NAME: Kyle Peterson				TIME: 1704		PRINT NAME: Stephan Weil				TIME: 1704	
RELINQUISHED BY:		FIRM:		DATE:		RECEIVED BY:		FIRM:		DATE:	
PRINT NAME:				TIME:		PRINT NAME:				TIME:	

ADDITIONAL REMARKS: Sewage Lagoon holding tank pH=7.10, Turb= 5 NTU, T= 9.6°C, salinity=0.03‰, DO=7.93 mg/L, cond=0.834 mS/cm												TEMP:		PAGE 1 OF 1	
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**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
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503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter  
Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/26/01 17:04. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson  
Environmental Group Leader

Work Orders included in this report:

**M107054**



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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE12SW	M107054-01	Water	07/26/01 16:30	07/26/01 17:04

COC #203

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 11



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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMTE12SW (M107054-01) Water</b>					Sampled: 07/26/01 Received: 07/26/01				
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	07/26/01	07/26/01	0107099	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
<b>Aroclor 1254</b>	<b>0.308</b>	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>82.5 %</i>	<i>44-119</i>							
<i>Surr: Decachlorobiphenyl</i>	<i>98.0 %</i>	<i>54-128</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

**Total Metals per EPA 6000/7000 Series Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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**01AMTE12SW (M107054-01) Water**

Sampled: 07/26/01 Received: 07/26/01

Arsenic	ND	0.00500	mg/l	1	EPA 6020	07/31/01	08/02/01	0107110	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Lead	ND	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	ND	0.0000100	"	"	EPA 1631	07/28/01	07/29/01	0107106	

North Creek Analytical - Mobile Lab

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

**Conventional Chemistry Parameters per APHA/EPA Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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**01AMTE12SW (M107054-01) Water**

Sampled: 07/26/01 Received: 07/26/01

Biochemical Oxygen Demand	ND	4.00	mg/l	1	EPA 405.1	07/28/01	08/02/01	0107103	
<b>Dissolved Oxygen</b>	<b>6.74</b>	1.00	"	"	EPA 360.1	07/26/01	07/26/01	0107100	
<b>pH</b>	<b>7.00</b>	0.100	pH Units	"	EPA 150.1	"	"	"	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	07/26/01	07/27/01	0107102	

North Creek Analytical - Mobile Lab

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**Reported:**  
08/02/01 18:09

**Microbiological Parameters per APHA Standard Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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**01AMTE12SW (M107054-01) Water**

Sampled: 07/26/01 Received: 07/26/01

E. Coli	ND	2.00MPN/100 ml	1		SM 9221	07/26/01	07/27/01	0107101	
<b>Total Coliforms</b>	<b>2420</b>	2.00	"	"	"	"	"	"	

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107099 - 3520B Liq-Liq

##### Blank (0107099-BLK1)

Prepared & Analyzed: 07/26/01

Aroclor 1016	ND	0.200	ug/l
Aroclor 1221	ND	0.400	"
Aroclor 1232	ND	0.200	"
Aroclor 1242	ND	0.200	"
Aroclor 1248	ND	0.200	"
Aroclor 1254	ND	0.200	"
Aroclor 1260	ND	0.200	"

Surr: 2,4,5,6-Tetrachloro-m-xylene	0.142	"	0.200	71.0	44-119
Surr: Decachlorobiphenyl	0.168	"	0.200	84.0	54-128

##### LCS (0107099-BS1)

Prepared & Analyzed: 07/26/01

Aroclor 1254	0.822	0.200	ug/l	1.00	82.2	47-155
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>0.168</i>		<i>"</i>	<i>0.200</i>	<i>84.0</i>	<i>44-119</i>
<i>Surr: Decachlorobiphenyl</i>	<i>0.188</i>		<i>"</i>	<i>0.200</i>	<i>94.0</i>	<i>54-128</i>

##### LCS Dup (0107099-BSD1)

Prepared & Analyzed: 07/26/01

Aroclor 1254	0.673	0.200	ug/l	1.00	67.3	47-155	19.9	50
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.127		"	0.200	63.5	44-119		
Surr: Decachlorobiphenyl	0.163		"	0.200	81.5	54-128		

##### Matrix Spike (0107099-MS1)

Source: M107048-01

Prepared & Analyzed: 07/26/01

Aroclor 1254	0.885	0.200	ug/l	1.00	0.224	66.1	50-150
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.101		"	0.200		50.5	44-119
Surr: Decachlorobiphenyl	0.142		"	0.200		71.0	54-128

North Creek Analytical - Mobile Lab

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107106 - EPA 1631

##### Blank (0107106-BLK1)

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	ND	0.0000100	mg/l
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##### LCS (0107106-BS1)

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	0.000120	0.0000100	mg/l	0.000125	96.0	85-115
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##### Duplicate (0107106-DUP1)

Source: M107054-01

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	ND	0.0000100	mg/l	ND	20
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##### Matrix Spike (0107106-MS1)

Source: M107054-01

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	0.000118	0.0000100	mg/l	0.000125	ND	91.4	75-125
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#### Batch 0107110 - EPA 200/3005

##### Blank (0107110-BLK1)

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

##### LCS (0107110-BS1)

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	0.0923	0.00500	mg/l	0.100	92.3	80-120
Cadmium	0.0854	0.00200	"	0.100	85.4	80-120
Lead	0.0882	0.00500	"	0.100	88.2	80-120
Selenium	0.0944	0.00500	"	0.100	94.4	75-115
Silver	0.0899	0.00200	"	0.100	89.9	80-120

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107110 - EPA 200/3005

##### Duplicate (0107110-DUP1)

Source: M107048-01

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	ND	0.00500	mg/l		ND		72.4	20	Q-05
Cadmium	ND	0.00200	"		ND			20	
Lead	ND	0.00500	"		ND		33.2	20	Q-05
Selenium	ND	0.00500	"		ND			20	
Silver	ND	0.00200	"		ND		46.4	20	Q-05

##### Matrix Spike (0107110-MS1)

Source: M107048-01

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	0.101	0.00500	mg/l	0.100	ND	99.9	75-125		
Cadmium	0.0868	0.00200	"	0.100	ND	86.8	75-125		
Lead	0.0901	0.00500	"	0.100	ND	88.1	75-125		
Selenium	0.104	0.00500	"	0.100	ND	104	75-125		
Silver	0.0437	0.00200	"	0.100	ND	43.4	75-125		Q-02

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Project: Amchitka  
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**Reported:**  
08/02/01 18:09

### Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107100 - Wet Chem

##### Duplicate (0107100-DUP1)

Source: M107054-01

Prepared & Analyzed: 07/26/01

pH	7.00	0.100	pH Units	7.00			0	200	
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#### Batch 0107102 - Wet Chem

##### Blank (0107102-BLK1)

Prepared: 07/26/01 Analyzed: 07/27/01

Total Suspended Solids	ND	10.0	mg/l						
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##### LCS (0107102-BS1)

Prepared: 07/26/01 Analyzed: 07/27/01

Total Suspended Solids	124	10.0	mg/l	120	103	80-120			
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##### Duplicate (0107102-DUP1)

Source: M107054-01

Prepared: 07/26/01 Analyzed: 07/27/01

Total Suspended Solids	ND	10.0	mg/l	ND				20	
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#### Batch 0107103 - Wet Chem

##### Blank (0107103-BLK1)

Prepared: 07/28/01 Analyzed: 08/02/01

Biochemical Oxygen Demand	ND	4.00	mg/l						
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##### LCS (0107103-BS1)

Prepared: 07/28/01 Analyzed: 08/02/01

Biochemical Oxygen Demand	175	4.00	mg/l	198	88.4	75-125			
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##### Duplicate (0107103-DUP1)

Source: M107054-01

Prepared: 07/28/01 Analyzed: 08/02/01

Biochemical Oxygen Demand	ND	4.00	mg/l	ND				40	
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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
08/02/01 18:09

### Microbiological Parameters per APHA Standard Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0107101 - Wet Chem

##### Blank (0107101-BLK1)

Prepared: 07/26/01 Analyzed: 07/27/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
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**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
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### Notes and Definitions

Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

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Stephen Wilson, Environmental Group Leader

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**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

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### Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107054 FINAL 08 02 01 1809.mdb Default Report (not modified)
0107110-BS1	Cr Total ICPMS 6020	Chromium	No true value
0107110-DUP1	Ag Total ICPMS 6020	Silver	Q-05
0107110-DUP1	Ag Total ICPMS 6020	Silver	Exceeds RPD limit
0107110-DUP1	As Total ICPMS 6020	Arsenic	Q-05
0107110-DUP1	As Total ICPMS 6020	Arsenic	Exceeds RPD limit
0107110-DUP1	Cr Total ICPMS 6020	Chromium	Q-05
0107110-DUP1	Cr Total ICPMS 6020	Chromium	No source result for M107048-01
0107110-DUP1	Pb Total ICPMS 6020	Lead	Q-05
0107110-DUP1	Pb Total ICPMS 6020	Lead	Exceeds RPD limit
0107110-MS1	Ag Total ICPMS 6020	Silver	Q-02
0107110-MS1	Ag Total ICPMS 6020	Silver	Exceeds lower control limit
0107110-MS1	Cr Total ICPMS 6020	Chromium	No true value
0107110-MS1	Cr Total ICPMS 6020	Chromium	No source result for M107048-01